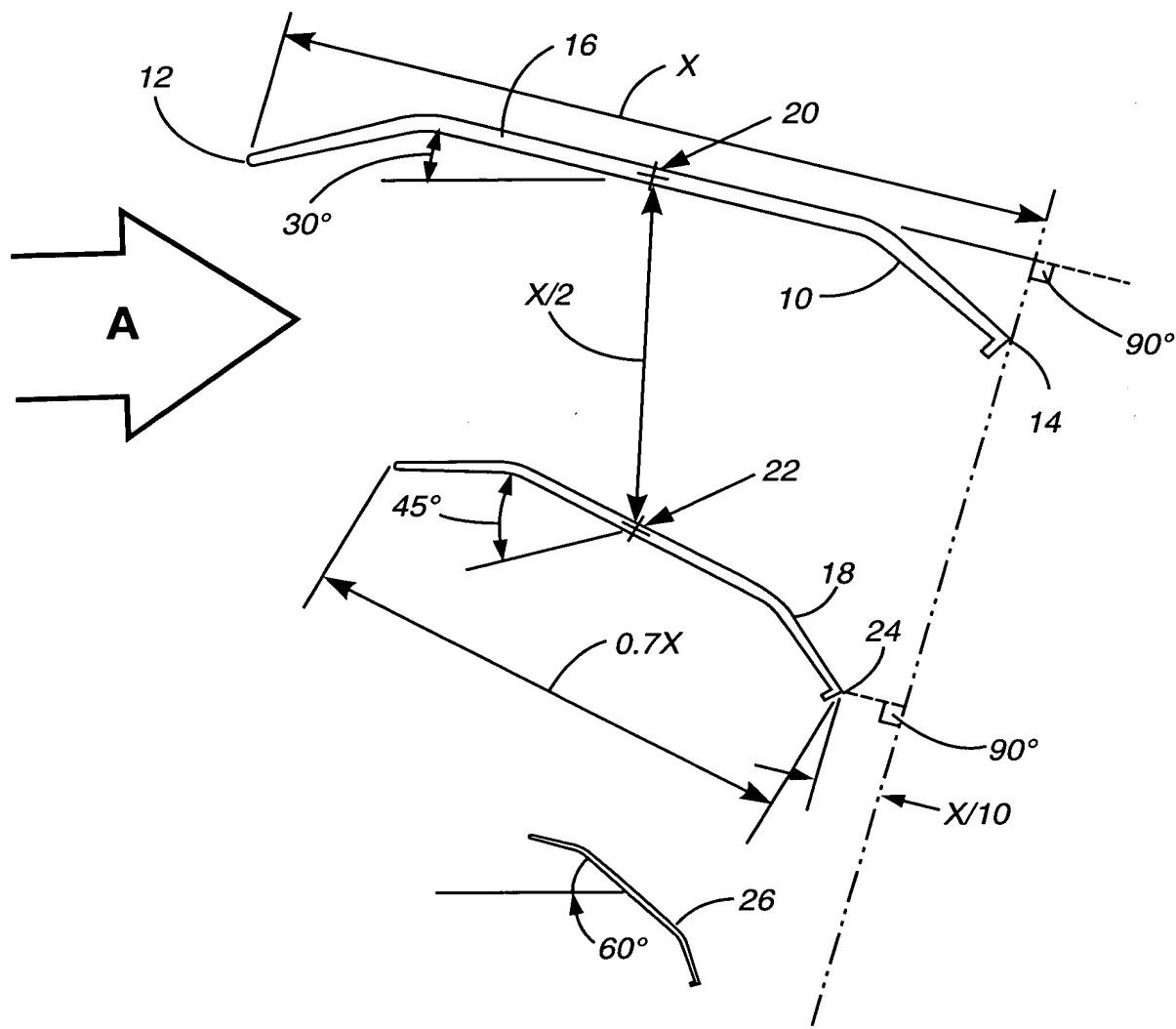




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**FIG. 1**



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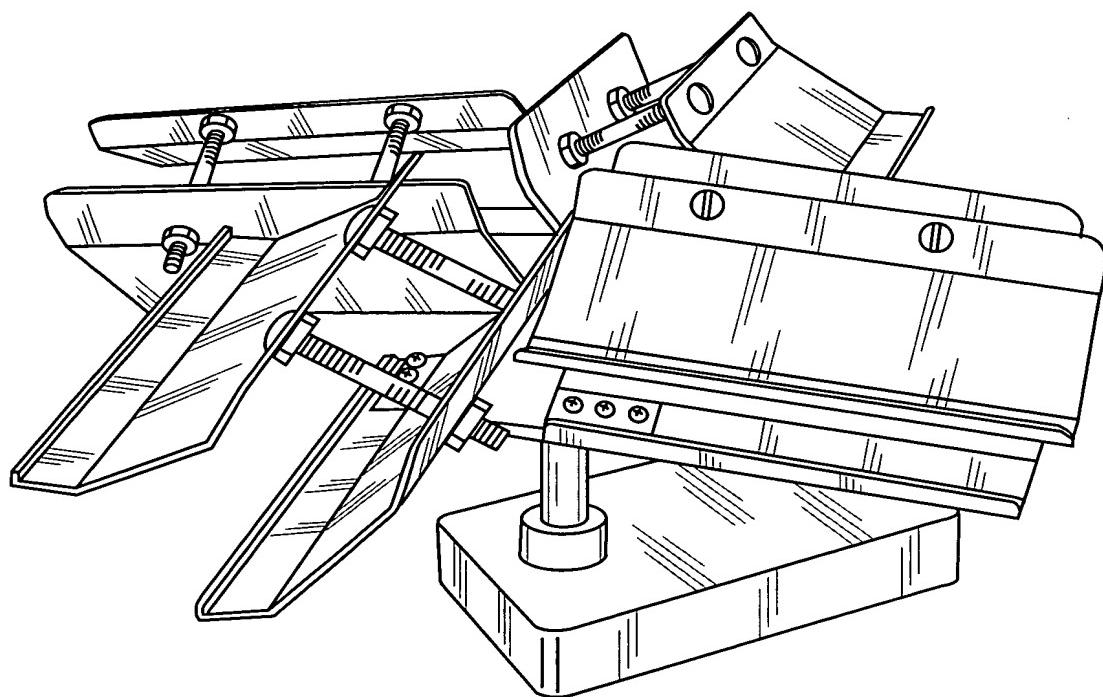


FIG. 2



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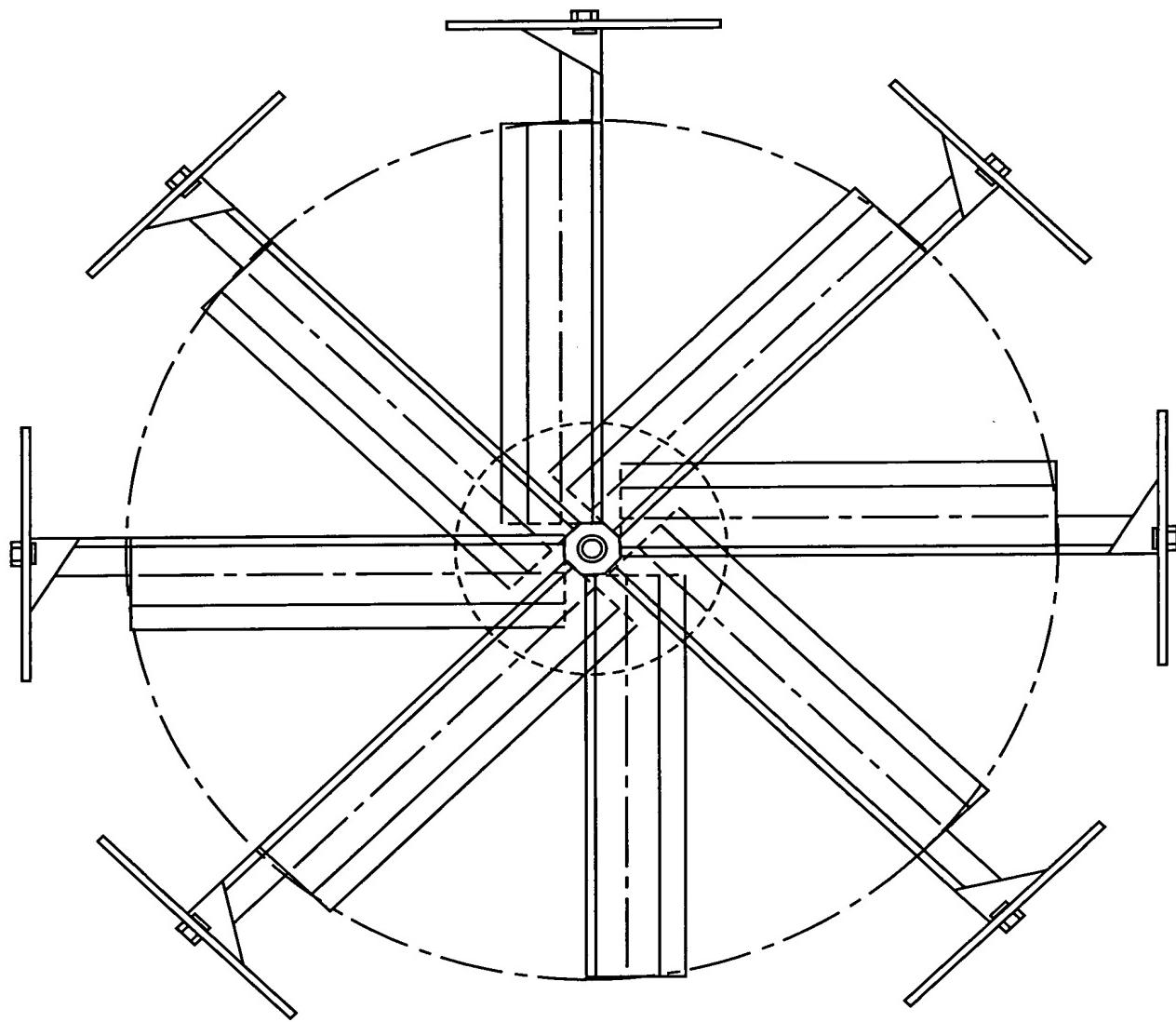


FIG.3





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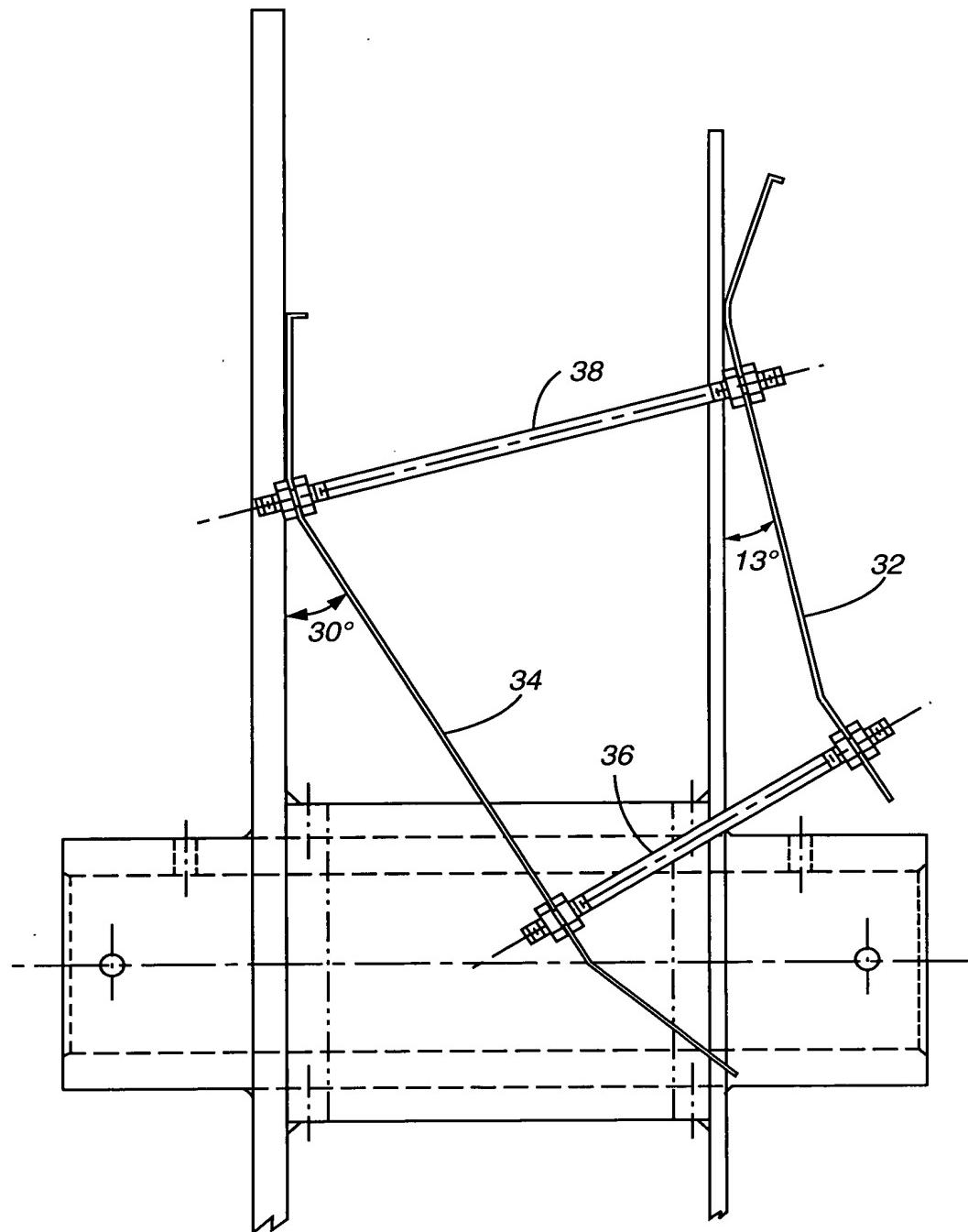


FIG. 4





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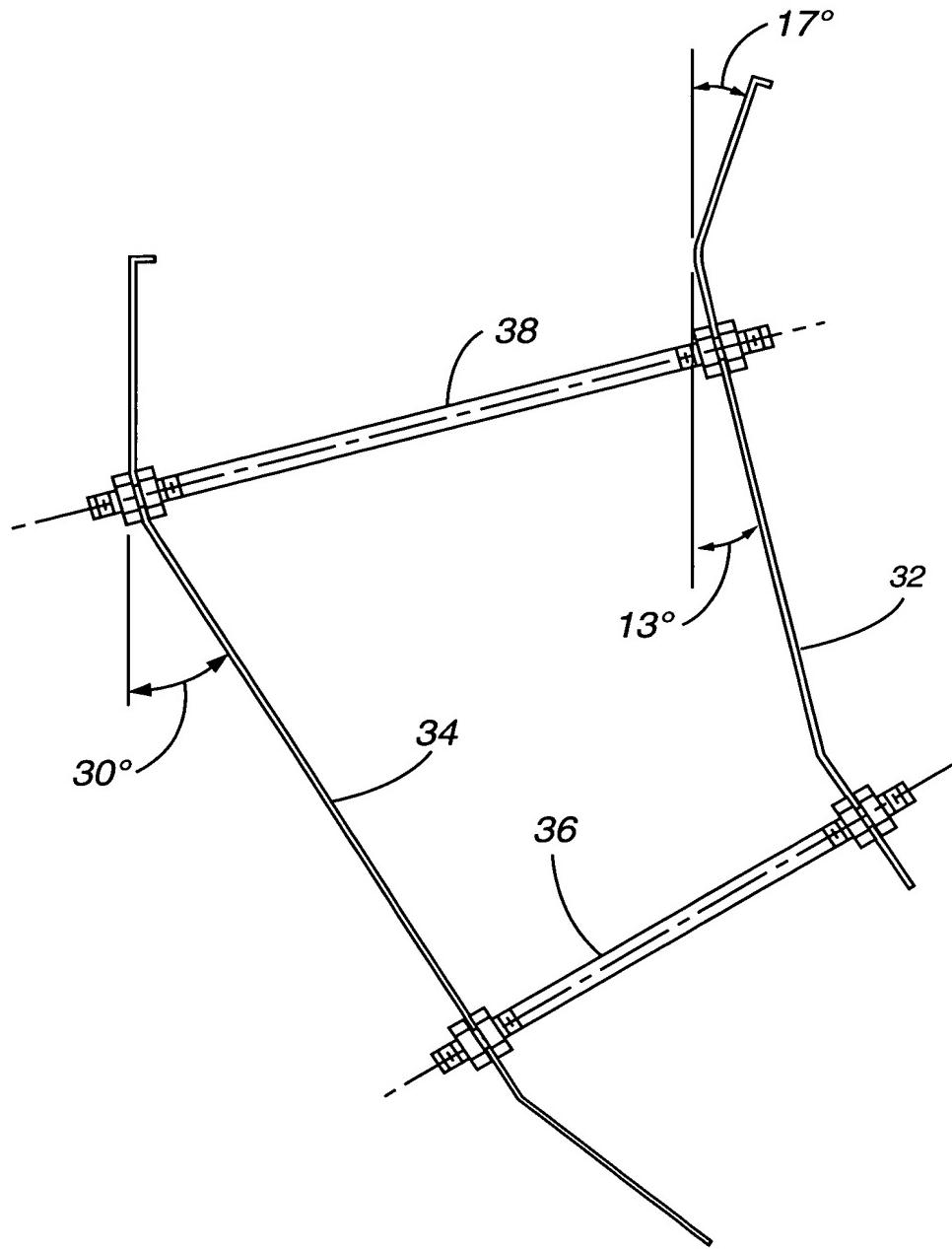
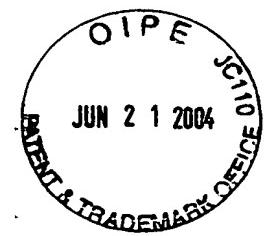


FIG. 5





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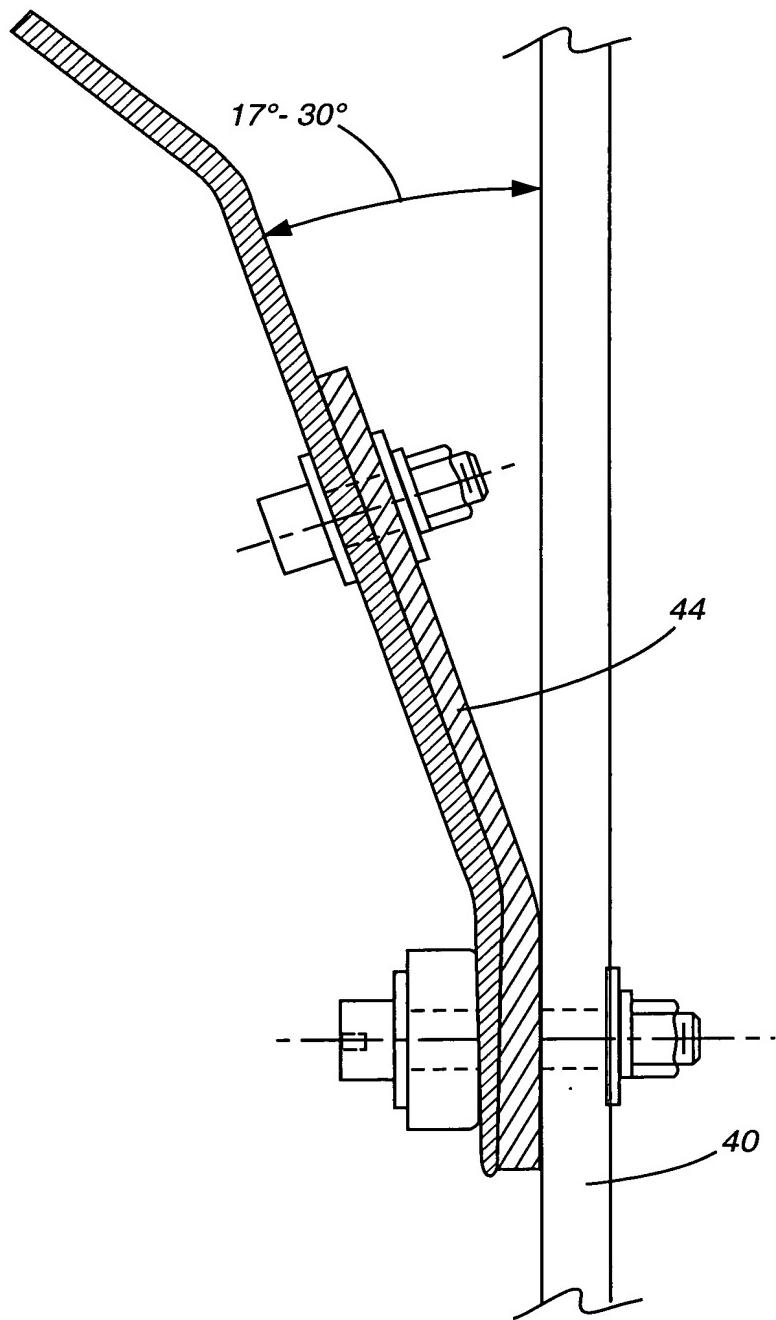


FIG. 6





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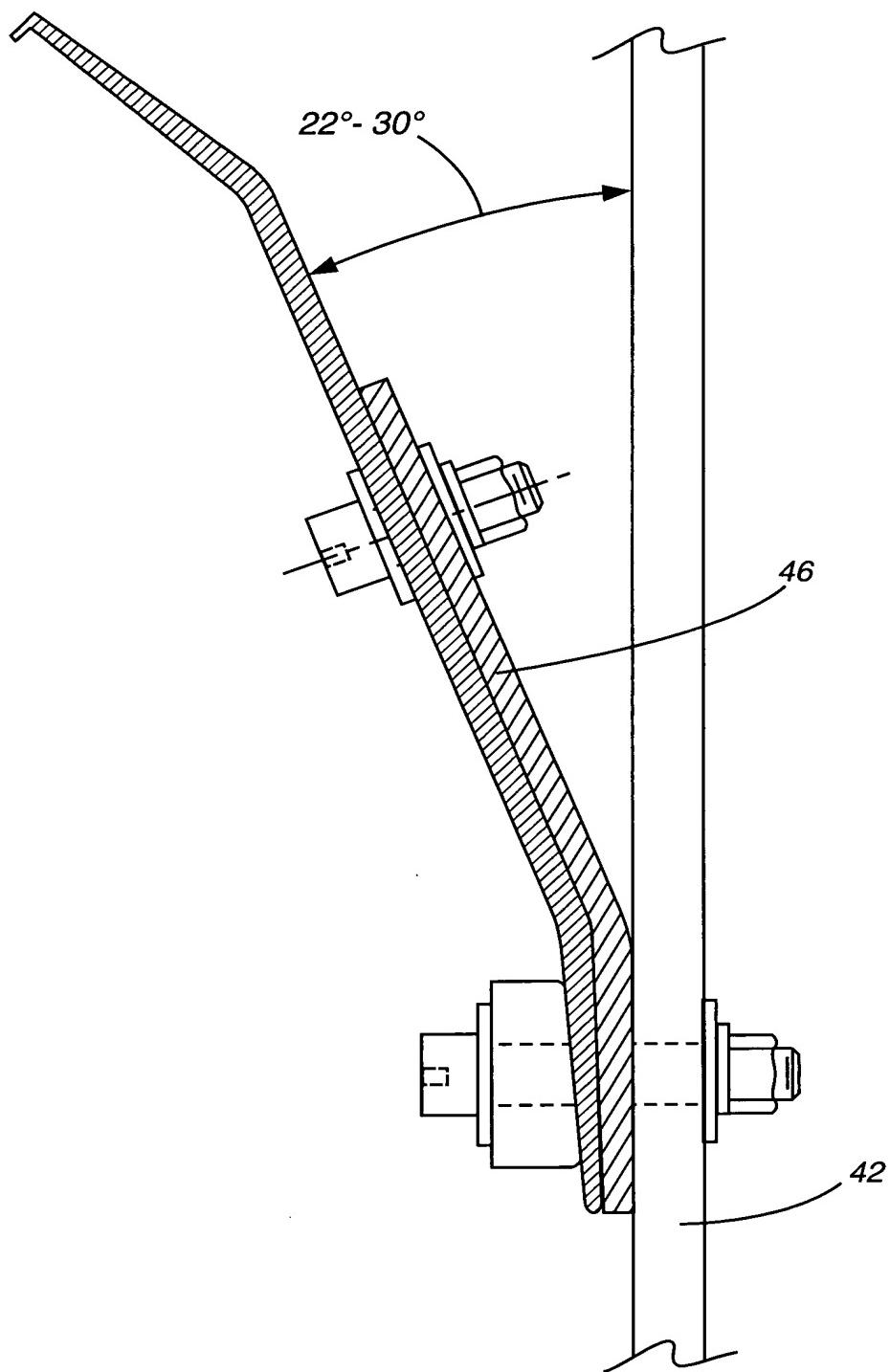


FIG. 7





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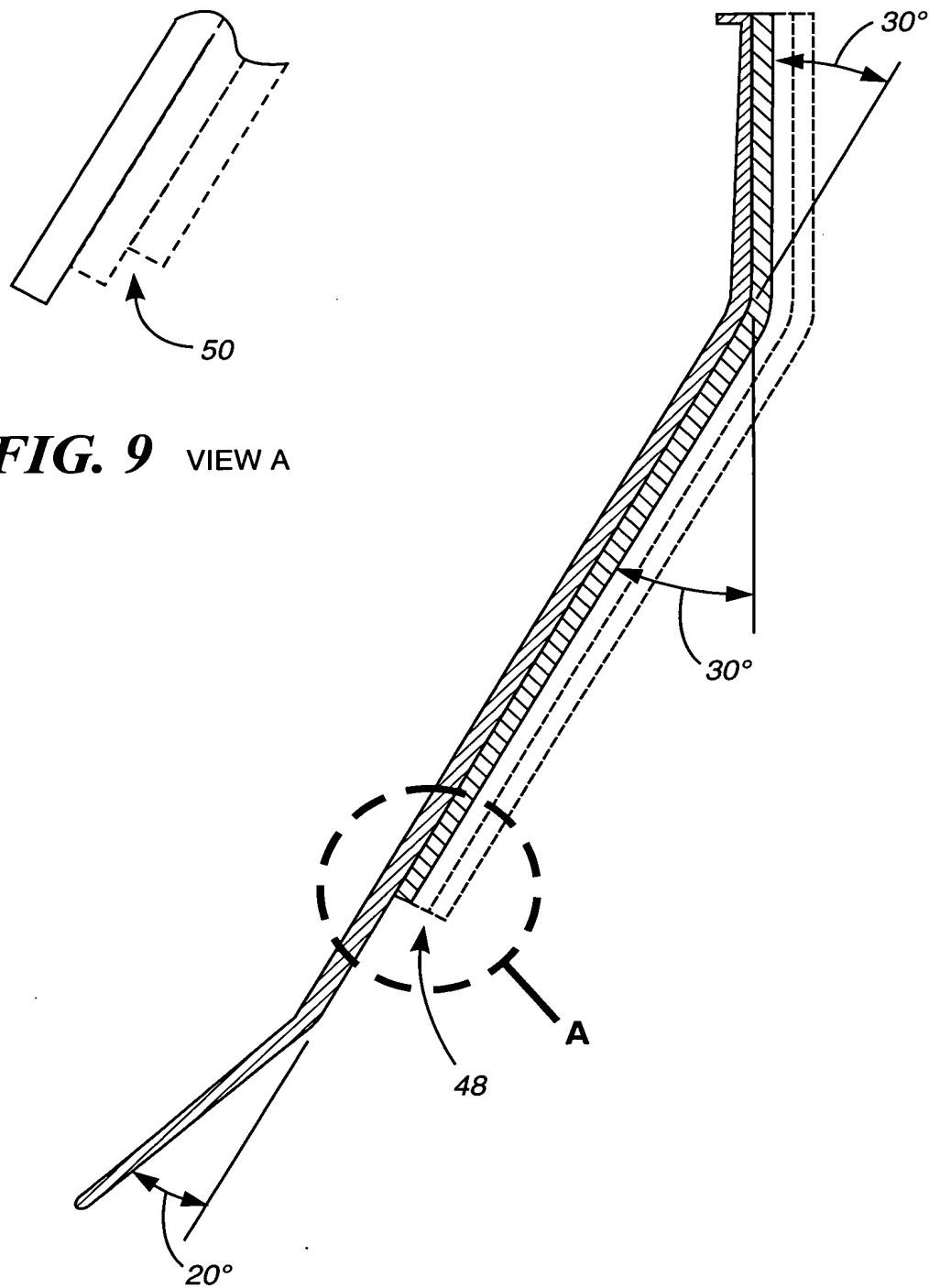


FIG. 9 VIEW A

FIG. 8





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COMPARISON OF LIFT FORCE PER FOOT OF AIRFOIL (VANE) LENGTH
VS. ANGLE OF ATTACK FOR THREE DIFFERENT AIRFOILS.

ANGLE OF ATTACK	7" CHORD McCABE AIRFOIL	8 13/32" CHORD NACA-12 AIRFOIL	9 1/2" - 7" CHORD McCABE BI-VANE AIRFOIL
0°	1.04#	-	2.85#
8°	-	-	3.40#
12°	1.85#	0.95#	3.65#
16°	-	-	3.35#
29°	2.40#	1.25#	2.20#

FIG. 10





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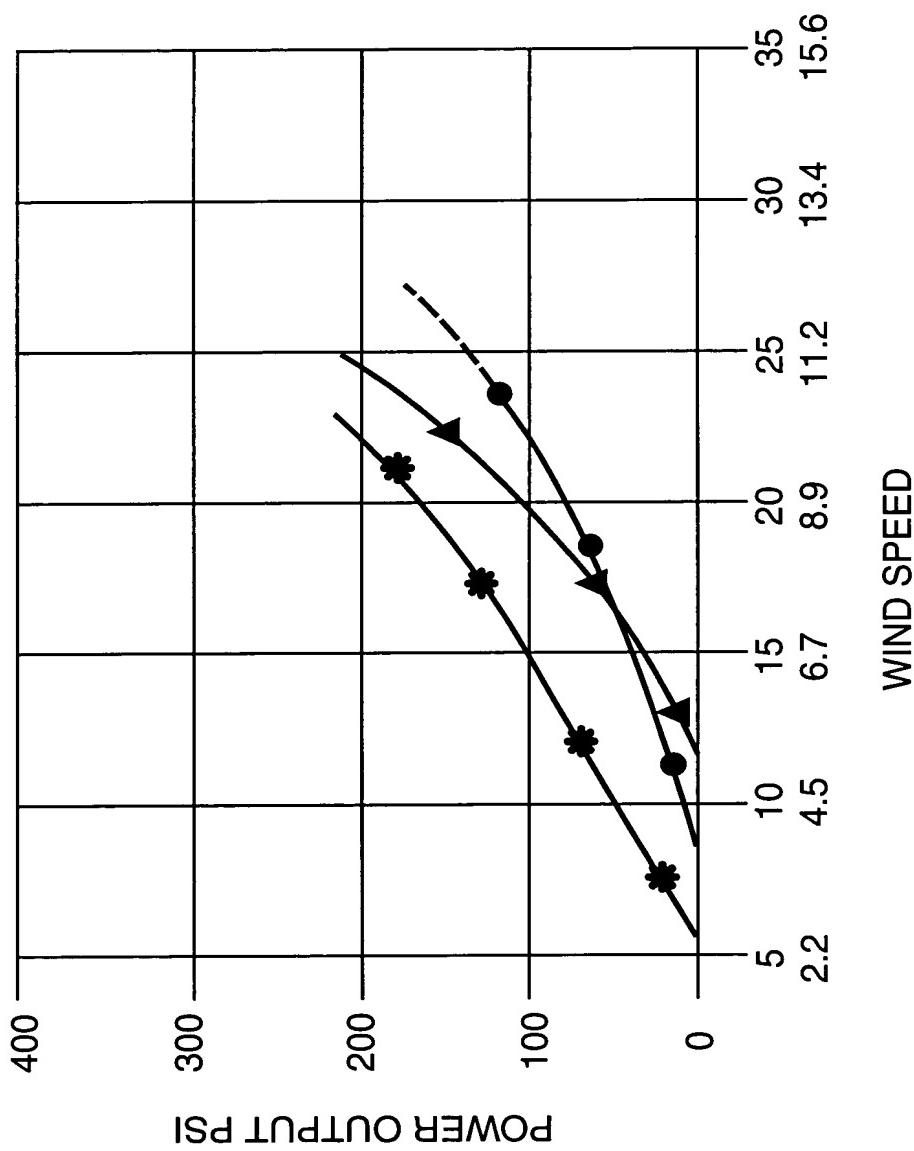


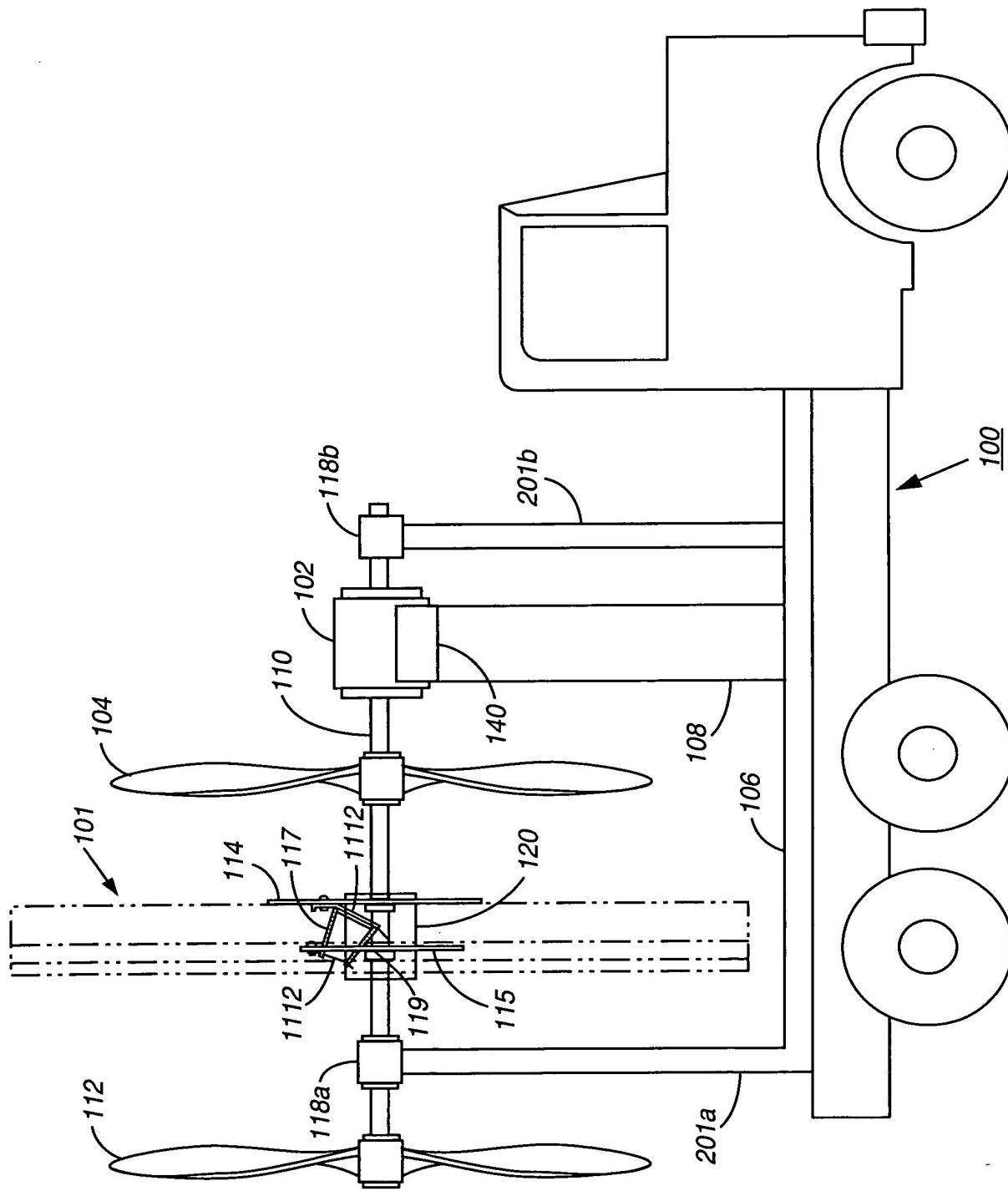
FIG. 11



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FIG. 12





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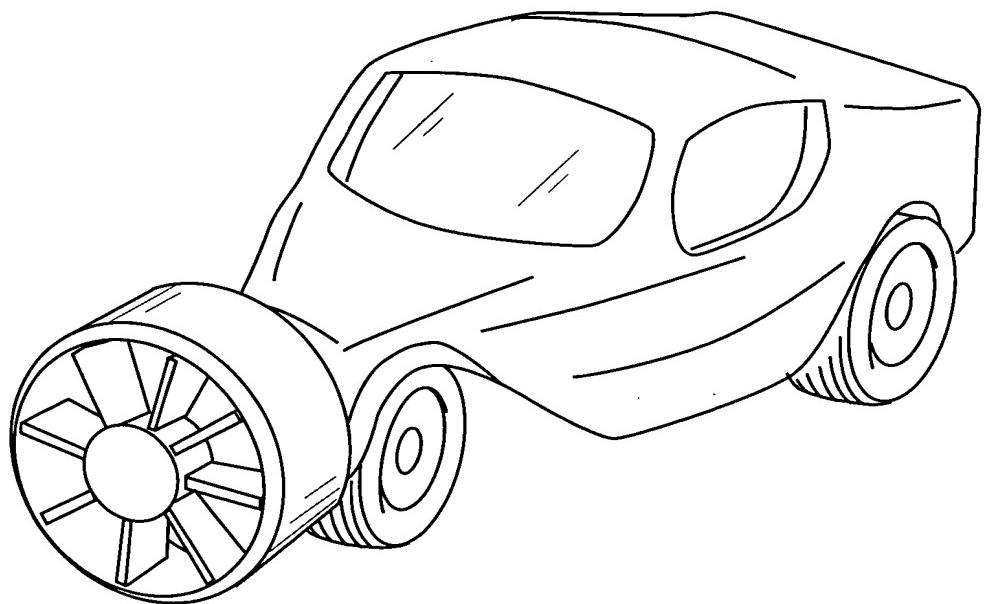


FIG. 13





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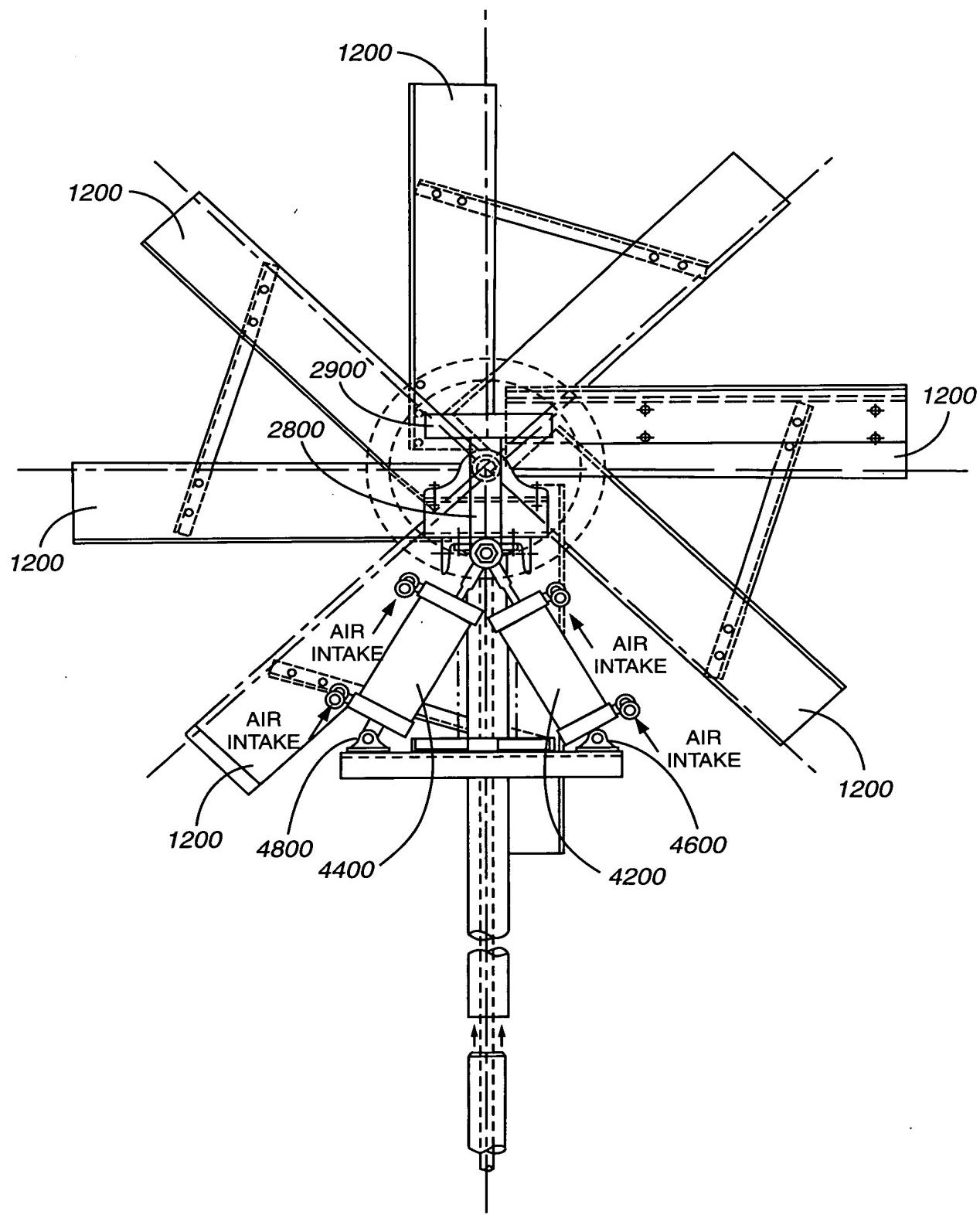


FIG. 14





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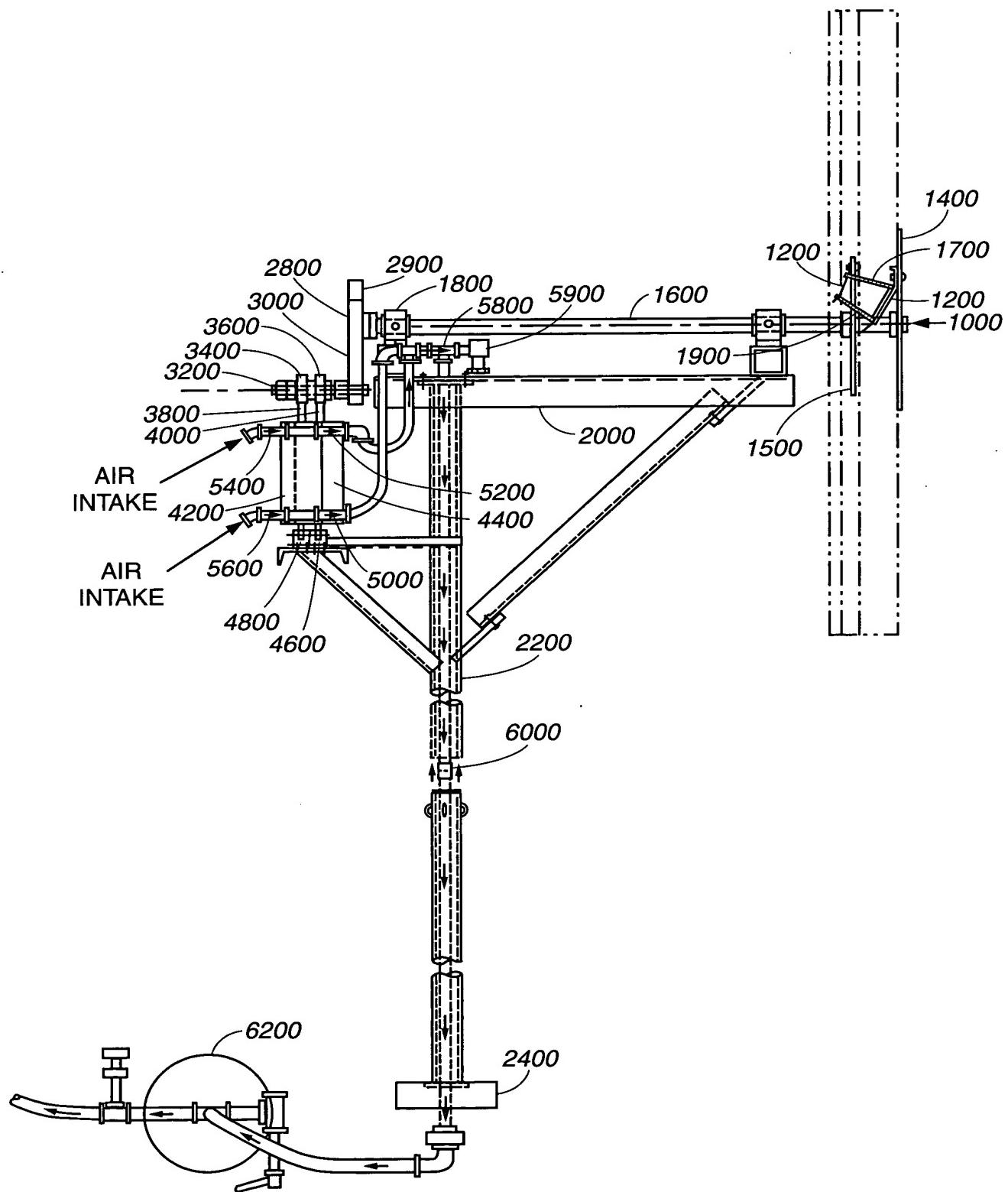


FIG. 15





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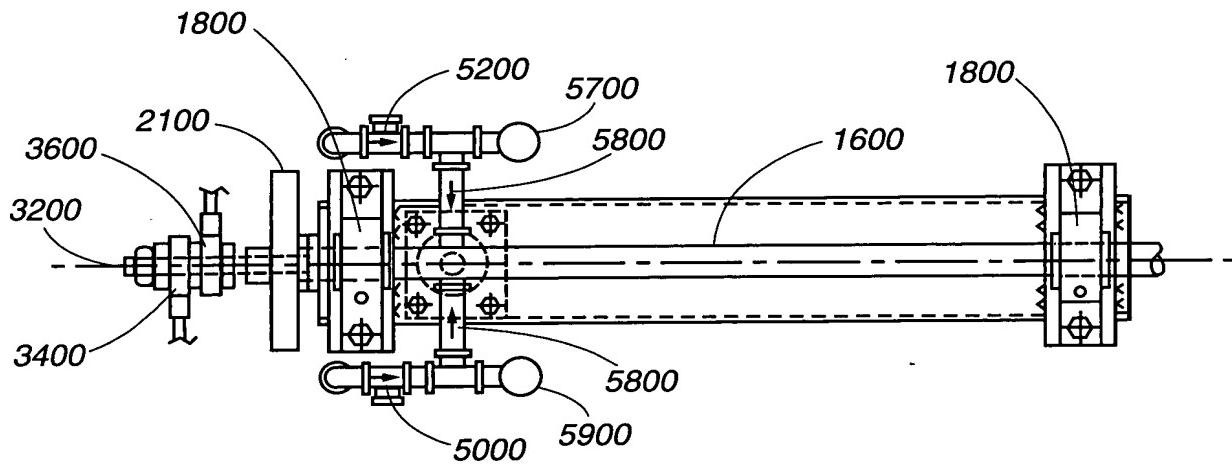


FIG. 16

